

Oliver Einsle

List of Publications by Year in descending order

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93
papers

7,362
citations

87888

38
h-index

56724

83
g-index

103
all docs

103
docs citations

103
times ranked

5911
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrogenase MoFe-Protein at 1.16 Å Resolution: A Central Ligand in the FeMo-Cofactor. <i>Science</i> , 2002, 297, 1696-1700.	12.6	1,041
2	Structural basis of biological nitrogen fixation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2005, 363, 971-984.	3.4	852
3	Evidence for Interstitial Carbon in Nitrogenase FeMo Cofactor. <i>Science</i> , 2011, 334, 940-940.	12.6	774
4	Structure of cytochrome c nitrite reductase. <i>Nature</i> , 1999, 400, 476-480.	27.8	352
5	Ligand binding to the FeMo-cofactor: Structures of CO-bound and reactivated nitrogenase. <i>Science</i> , 2014, 345, 1620-1623.	12.6	343
6	A bound reaction intermediate sheds light on the mechanism of nitrogenase. <i>Science</i> , 2018, 359, 1484-1489.	12.6	245
7	Selective Sirt2 inhibition by ligand-induced rearrangement of the active site. <i>Nature Communications</i> , 2015, 6, 6263.	12.8	222
8	The structure of vanadium nitrogenase reveals an unusual bridging ligand. <i>Nature Chemical Biology</i> , 2017, 13, 956-960.	8.0	222
9	Structural Enzymology of Nitrogenase Enzymes. <i>Chemical Reviews</i> , 2020, 120, 4969-5004.	47.7	194
10	N ₂ O binding at a [4Cu:2S] copper-sulphur cluster in nitrous oxide reductase. <i>Nature</i> , 2011, 477, 234-237.	27.8	178
11	Identification of a spin-coupled Mo(<i>scp</i>) in the nitrogenase iron-molybdenum cofactor. <i>Chemical Science</i> , 2014, 5, 3096-3103.	7.4	164
12	Structure of the non-redox-active tungsten/[4Fe:4S] enzyme acetylene hydratase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 3073-3077.	7.1	135
13	Nitrogenase FeMoco investigated by spatially resolved anomalous dispersion refinement. <i>Nature Communications</i> , 2016, 7, 10902.	12.8	131
14	4- <i>Acyl</i> Pyrroles: Mimicking Acetylated Lysines in Histone Code Reading. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 14055-14059.	13.8	102
15	Mo-, V-, and Fe-Nitrogenases Use a Universal Eight-Electron Reductive-Elimination Mechanism To Achieve N ₂ Reduction. <i>Biochemistry</i> , 2019, 58, 3293-3301.	2.5	99
16	pH-Dependent Gating in a FocA Formate Channel. <i>Science</i> , 2011, 332, 352-354.	12.6	86
17	Biochemical and Structural Characterization of the Cross-Linked Complex of Nitrogenase: A Comparison to the ADP- <i>AlF₄</i> -Stabilized Structure. <i>Biochemistry</i> , 2002, 41, 15557-15565.	2.5	81
18	The formate channel FocA exports the products of mixed-acid fermentation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13254-13259.	7.1	76

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19	The Fe ^{IV} Cofactor of Vanadium Nitrogenase Contains an Interstitial Carbon Atom. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13249-13252.	13.8	74
20	The discovery of Mo(III) in FeMoco: reuniting enzyme and model chemistry. <i>Journal of Biological Inorganic Chemistry</i> , 2015, 20, 447-460.	2.6	71
21	Nitrogenase FeMo cofactor: an atomic structure in three simple steps. <i>Journal of Biological Chemistry</i> , 2014, 19, 737-745.	2.6	65
22	Comparative electronic structures of nitrogenase FeMoco and FeVco. <i>Dalton Transactions</i> , 2017, 46, 2445-2455.	3.3	65
23	The Critical E ₄ State of Nitrogenase Catalysis. <i>Biochemistry</i> , 2018, 57, 5497-5504.	2.5	65
24	The formate/nitrite transporter family of anion channels. <i>Biological Chemistry</i> , 2013, 394, 715-727.	2.5	62
25	Investigation of the Electron Transport Chain to and the Catalytic Activity of the Diheme Cytochrome <i>c</i> Peroxidase CcpA of <i>Shewanella oneidensis</i> . <i>Applied and Environmental Microbiology</i> , 2011, 77, 6172-6180.	3.1	60
26	Structure and Function of Formate-Dependent Cytochrome <i>c</i> Nitrite Reductase, NrfA. <i>Methods in Enzymology</i> , 2011, 496, 399-422.	1.0	60
27	Chloroplast FBPase and SBPase are thioredoxin-linked enzymes with similar architecture but different evolutionary histories. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6779-6784.	7.1	60
28	A Conformational Switch Triggers Nitrogenase Protection from Oxygen Damage by Shethna Protein II (FeSII). <i>Journal of the American Chemical Society</i> , 2016, 138, 239-247.	13.7	60
29	Structure of Phytoene Desaturase Provides Insights into Herbicide Binding and Reaction Mechanisms Involved in Carotene Desaturation. <i>Structure</i> , 2017, 25, 1222-1232.e3.	3.3	59
30	Structural and functional characterization of the nitrite channel NirC from <i>Salmonella typhimurium</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18395-18400.	7.1	57
31	The octahaem MccA is a haem ^c copper sulfite reductase. <i>Nature</i> , 2015, 520, 706-709.	27.8	55
32	4-Acyl Pyrrole Derivatives Yield Novel Vectors for Designing Inhibitors of the Acetyl-Lysine Recognition Site of BRD4(1). <i>Journal of Medicinal Chemistry</i> , 2016, 59, 1518-1530.	6.4	51
33	CO Binding to the Fe ^V Cofactor of CO-Reducing Vanadium Nitrogenase at Atomic Resolution. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23626-23630.	13.8	51
34	Structure-Based Development of an Affinity Probe for Sirtuin ² . <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2252-2256.	13.8	50
35	Assignment of Individual Metal Redox States in a Metalloprotein by Crystallographic Refinement at Multiple X-ray Wavelengths. <i>Journal of the American Chemical Society</i> , 2007, 129, 2210-2211.	13.7	47
36	Physiological function and catalytic versatility of bacterial multihaem cytochromes <i>c</i> involved in nitrogen and sulfur cycling. <i>Biochemical Society Transactions</i> , 2011, 39, 1864-1870.	3.4	44

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37	MacA is a Second Cytochrome <i>c</i> Peroxidase of <i>Geobacter sulfurreducens</i> . <i>Biochemistry</i> , 2012, 51, 2747-2756.	2.5	44
38	Structure of the processive rubber oxygenase RoxA from <i>Xanthomonas</i> sp. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13833-13838.	7.1	41
39	Substrate Pathways in the Nitrogenase MoFe Protein by Experimental Identification of Small Molecule Binding Sites. <i>Biochemistry</i> , 2015, 54, 2052-2060.	2.5	41
40	Nature's way of handling a greenhouse gas: the copper-sulfur cluster of purple nitrous oxide reductase. <i>Biological Chemistry</i> , 2012, 393, 1067-1077.	2.5	40
41	The flavinyl transferase ApbE of <i>Pseudomonas stutzeri</i> matures the NosR protein required for nitrous oxide reduction. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017, 1858, 95-102.	1.0	39
42	Molybdenum L-Edge XAS Spectra of MoFe Nitrogenase. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 65-71.	1.2	36
43	Establishing a Thermodynamic Landscape for the Active Site of Mo-Dependent Nitrogenase. <i>Journal of the American Chemical Society</i> , 2019, 141, 17150-17157.	13.7	36
44	CcpA from <i>Geobacter sulfurreducens</i> Is a Basic Di-Heme Cytochrome <i>c</i> Peroxidase. <i>Journal of Molecular Biology</i> , 2009, 393, 951-965.	4.2	35
45	Production and isolation of vanadium nitrogenase from <i>Azotobacter vinelandii</i> by molybdenum depletion. <i>Journal of Biological Inorganic Chemistry</i> , 2017, 22, 161-168.	2.6	34
46	Functional assembly of nitrous oxide reductase provides insights into copper site maturation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12822-12827.	7.1	33
47	Two ligand-binding sites in CO-reducing V nitrogenase reveal a general mechanistic principle. <i>Science Advances</i> , 2021, 7, .	10.3	33
48	X-ray Magnetic Circular Dichroism Spectroscopy Applied to Nitrogenase and Related Models: Experimental Evidence for a Spin-Coupled Molybdenum(III) Center. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9373-9377.	13.8	32
49	Structural and Functional Analysis of Latex Clearing Protein (Lcp) Provides Insight into the Enzymatic Cleavage of Rubber. <i>Scientific Reports</i> , 2017, 7, 6179.	3.3	29
50	Comment on "Structural evidence for a dynamic metal cofactor during N ₂ reduction by Mo-nitrogenase". <i>Science</i> , 2021, 371, .	12.6	29
51	The Sixteenth Iron in the Nitrogenase MoFe Protein. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10529-10532.	13.8	28
52	Crystal structure of VnfH, the iron protein component of vanadium nitrogenase. <i>Journal of Biological Inorganic Chemistry</i> , 2018, 23, 1049-1056.	2.6	28
53	Phytoene Desaturase from <i>Oryza sativa</i> : Oligomeric Assembly, Membrane Association and Preliminary 3D-Analysis. <i>PLoS ONE</i> , 2015, 10, e0131717.	2.5	26
54	Structural Characterization of O- and C-Glycosylating Variants of the Landomycin Glycosyltransferase LanGT2. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2811-2815.	13.8	26

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55	Beyond the BET Family: Targeting CBP/p300 with 4-acyl Pyrroles. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12476-12480.	13.8	26
56	Crystal structure of Cdc11, a septin subunit from <i>Saccharomyces cerevisiae</i> . <i>Journal of Structural Biology</i> , 2016, 193, 157-161.	2.8	25
57	Nitrogenase Cofactor: Inspiration for Model Chemistry. <i>Chemistry - an Asian Journal</i> , 2017, 12, 1447-1455.	3.3	24
58	Analysis of the Magnetic Properties of Nitrogenase FeMo Cofactor by Single-Crystal EPR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10116-10119.	13.8	23
59	Sirtuin 1 Inhibiting Thiocyanates (S1th) – A New Class of Isozyme Selective Inhibitors of NAD ⁺ Dependent Lysine Deacetylases. <i>Frontiers in Oncology</i> , 2020, 10, 657.	2.8	19
60	Role of Calcium in Secondary Structure Stabilization during Maturation of Nitrous Oxide Reductase. <i>Biochemistry</i> , 2016, 55, 1433-1440.	2.5	18
61	Specificity of NifEN and VnfEN for the Assembly of Nitrogenase Active Site Cofactors in <i>Azotobacter vinelandii</i> . <i>MBio</i> , 2021, 12, e0156821.	4.1	18
62	No Laughing Matter: The Unmaking of the Greenhouse Gas Dinitrogen Monoxide by Nitrous Oxide Reductase. <i>Metal Ions in Life Sciences</i> , 2014, 14, 177-210.	2.8	15
63	Histidine-Gated Proton-Coupled Electron Transfer to the Cu ^A Site of Nitrous Oxide Reductase. <i>Journal of the American Chemical Society</i> , 2021, 143, 830-838.	13.7	15
64	Helix swapping leads to dimerization of the N-terminal domain of the cytochrome maturation protein CcmH from <i>Escherichia coli</i> . <i>FEBS Letters</i> , 2008, 582, 2779-2786.	2.8	14
65	HaloTag-Targeted Sirtuin-Rearranging Ligand (SirReal) for the Development of Proteolysis-Targeting Chimeras (PROTACs) against the Lysine Deacetylase Sirtuin 2 (Sirt2)**. <i>ChemBioChem</i> , 2020, 21, 3371-3376.	2.6	13
66	Architecture of the membrane-bound cytochrome c heme lyase CcmF. <i>Nature Chemical Biology</i> , 2021, 17, 800-805.	8.0	13
67	The Copper Chaperone NosL Forms a Heterometal Site for Cu Delivery to Nitrous Oxide Reductase. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 18810-18814.	13.8	12
68	Improving coiled coil stability while maintaining specificity by a bacterial hitchhiker selection system. <i>Journal of Structural Biology</i> , 2014, 186, 335-348.	2.8	11
69	4-Acyl Pyrroles as Dual BET-BRD7/9 Bromodomain Inhibitors Address BET ⁱ Insensitive Human Cancer Cell Lines. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 15603-15620.	6.4	11
70	In Vivo Biogenesis of a De Novo Designed Iron-Sulfur Protein. <i>ACS Synthetic Biology</i> , 2020, 9, 3400-3407.	3.8	10
71	Activation of Sirtuin 2 Inhibitors Employing Photoswitchable Geometry and Aqueous Solubility. <i>ChemMedChem</i> , 2020, 15, 1480-1489.	3.2	10
72	<i>Geobacter sulfurreducens</i> Cytochrome Peroxidases: Electrochemical Classification of Catalytic Mechanisms. <i>Biochemistry</i> , 2011, 50, 4513-4520.	2.5	9

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73	Structural analysis of the reductase component AnfH of iron-only nitrogenase from <i>Azotobacter vinelandii</i> . <i>Journal of Inorganic Biochemistry</i> , 2022, 227, 111690.	3.5	9
74	Active sites without restraints: high-resolution analysis of metal cofactors. <i>Current Opinion in Structural Biology</i> , 2015, 35, 32-40.	5.7	8
75	Detection and Characterization of a Mycobacterial L-Arabinofuranose ABC Transporter Identified with a Rapid Lipoproteomics Protocol. <i>Cell Chemical Biology</i> , 2019, 26, 852-862.e6.	5.2	8
76	Structural Basis for Inhibition of ROS-Producing Respiratory Complex I by NADH-OH. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 27277-27281.	13.8	8
77	Bindung von CO am Fe-Cofaktor der CO-reduzierenden Vanadium-Nitrogenase bei atomarer Auflösung. <i>Angewandte Chemie</i> , 2020, 132, 23833-23837.	2.0	6
78	Respiratory complex I with charge symmetry in the membrane arm pumps protons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	6
79	Structural and Functional Studies of NirC from <i>Salmonella typhimurium</i> . <i>Methods in Enzymology</i> , 2015, 556, 475-497.	1.0	5
80	Beyond the BET Family: Targeting CBP/p300 with 4-acyl Pyrroles. <i>Angewandte Chemie</i> , 2017, 129, 12650-12654.	2.0	5
81	Chimeric Interaction of Nitrogenase-Like Reductases with the MoFe Protein of Nitrogenase. <i>ChemBioChem</i> , 2020, 21, 1733-1741.	2.6	5
82	Biosynthesis of the Tricyclic Aromatic Type II Polyketide Rishirilide: New Potential Third Ring Oxygenation after Three Cyclization Steps. <i>Molecular Biotechnology</i> , 2021, 63, 502-514.	2.4	5
83	A [3Cu:2S] cluster provides insight into the assembly and function of the Cu _Z site of nitrous oxide reductase. <i>Chemical Science</i> , 2021, 12, 3239-3244.	7.4	5
84	Strukturelle Charakterisierung von O- und C-glycosylierenden Varianten der Landomycin-Glycosyltransferase LanGT2. <i>Angewandte Chemie</i> , 2015, 127, 2853-2857.	2.0	4
85	Crystallization and preliminary X-ray analysis of the molybdenum-dependent pyrogallol-phloroglucinol transhydroxylase of <i>Pelobacter acidigallici</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 343-345.	2.5	3
86	Another twist on nitrogenases. <i>Nature Microbiology</i> , 2018, 3, 263-264.	13.3	2
87	Das Kupfer-Chaperon NosL bildet ein Heterometallzentrum für die Cu-Abgabe an Distickstoffmonoxid-Reduktase. <i>Angewandte Chemie</i> , 2021, 133, 18958-18962.	2.0	2
88	X-ray Magnetic Circular Dichroism Spectroscopy Applied to Nitrogenase and Related Models: Experimental Evidence for a Spin-Coupled Molybdenum(III) Center. <i>Angewandte Chemie</i> , 2019, 131, 9473-9477.	2.0	1
89	Expression, Isolation, and Characterization of Vanadium Nitrogenase from <i>Azotobacter vinelandii</i> . <i>Methods in Molecular Biology</i> , 2021, 2353, 97-121.	0.9	1
90	EBEC 2012: Combining the multiple facets of bioenergetics. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2012, 1817, 1709-1710.	1.0	0

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91	Enzyme or Electrode?. Structure, 2012, 20, 1132-1134.	3.3	0
92	8. The Cofactors of Nitrogenases. , 2020, 20, 257-312.		0
93	Structural basis of O-methylation of (2-heptyl-)1-hydroxyquinolin-4(1H)-one and related compounds by the heterocyclic toxin methyltransferase Rv0560c of Mycobacterium tuberculosis. Journal of Structural Biology, 2021, 213, 107794.	2.8	0